

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Seong Rag KIM, et al.

Serial No.: New Application Group Art Unit: Not Yet Assigned

Filed: December 26, 2001 Examiner: Not Yet Assigned

Title: **ADAPTIVE RAKE RECEIVING APPARATUS CONSTRAINED WITH AT LEAST
ONE CONSTRAINT FOR USE IN MOBILE COMMUNICATION SYSTEM AND
METHOD THEREFOR**

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents
Washington, DC 20231

December 26, 2001

Sir:

As a means of complying with the duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97 and 1.98, Applicant(s), through the undersigned attorney, submits this Information Disclosure Statement. The patents, publications or other information submitted herewith are listed on the attached Form PTO-1449 and copies are attached.

In accordance with 37 CFR §1.97(b)(1) or (2), this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, or within three months of the date of entry into the national stage of the above-identified application as set forth in 37 CFR §1.491. Accordingly, no fee is required.

Respectfully submitted,

JACOBSON HOLMAN, PLLC

By: 

Yoon S. Ham

Registration No. 45,307

400 Seventh Street, N.W.
Washington, DC 20004
(202) 638-6666

Atty. Dkt. No.: P67436US0
YSH:ecl

JACOBSON, PRICE, HOLMAN & STERN, PLLC
 400 SEVENTH STREET, N.W.
 WASHINGTON, D.C. 20004-2201



LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: P67436US0 GROUP ART UNIT: Not Yet Assigned
 SERIAL NO.: Not Yet Assigned FILING DATE: December 26, 2001
 APPLICANT(S): Seong Rag KIM, et al. TODAY'S DATE: December 26, 2001

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	INT'L CLASS	SUB- CLASS	FILING DATE (If Appropriate)
AA	5,268,927	12/07/93	Dimos, et al.	H04L	27/30	10/06/92
AB	5,343,496	08/30/94	Honiq, et al.	H04L	27/30	09/24/93
AC	5,425,059	06/13/95	Tsujimoto	H04L	1/02	07/29/93

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES) (NO)
AD					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AE	Kim, et al.; A Constrained MMSE Receiver...; IEEE Transactions On Communications, vol.48, no.11, Nov. 2000, p.1793-1796.
AF	Lavta-aho, et al.; LMMSE Detection for...; IEEE Transactions on Communications, vol.48, no.2., Feb. 2000, p.194-199.
AG	Barbosa, et al.; Adaptive Detection of...; IEEE Transactions on Communications, vol.46, no.1., Jan. 1998, p.115-124
AH	Madhow, et al.; MMSE Interference....; IEEE Transactions on Communications, vol.42, no.12., December 1994, p.3178-3188

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Information Disclosure Statements

**U. S. Patent Application for ADAPTIVE RAKE RECEIVING APPARATUS
CONSTRAINED WITH AT LEAST ONE CONSTRAINT FOR USE IN
MOBILE COMMUNICATION SYSTEM AND METHOD THEREFOR**

Our Ref. No. P01E7016/US/js

Reference Nos.:

- (1) US5,268,927**
- (2) US5,343,496**
- (3) US5,425,059**

Papers:

- (1) A Constrained MMSE Receiver for DS/CDMA Systems in Fading Channels**
- (2) LMMSE Detection for DS-CDMA Systems in Fading Channels**
- (3) Adaptive Detection of DS/CDMA Signals in Fading Channels**
- (4) MMSE Interference Suppression for Direct-Sequence Spread-Spectrum CDMA**